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## In the Claims:

1-13. (Canceled)

- 14. (Previously Presented) A capacitor having a first electrode plate and a second electrode plate and a layer made of a dielectric formed between the first electrode plate and the second electrode plate, wherein the second electrode plate is formed from at least a layer made of ruthenium or ruthenium(IV) oxide and a layer made of polysilicon, wherein the capacitor is formed as a trench capacitor in a semiconductor substrate, in which the first electrode plate is formed as a doped section of the semiconductor substrate in a trench wall.
- 15. (Previously Presented) The capacitor of claim 14, wherein the first electrode plate is at least one of supplemented by a layer made of metal or made of an electrically highly conductive material arranged on doped sections.
- 16. (Previously Presented) A capacitor having a first electrode plate and a second electrode plate and a layer made of a dielectric formed between the first electrode plate and the second electrode plate, wherein at least a portion of one of the electrode plates is formed from ruthenium or ruthenium(IV) oxide, wherein the capacitor is formed as a trench capacitor in a semiconductor substrate, and wherein an insulation section is provided in an upper region of a trench wall adjoining an opening of the trench capacitor, wherein the first electrode plate is formed as a doped section of the semiconductor substrate in the trench wall and the second electrode plate is formed at least in part from ruthenium or ruthenium(IV) oxide.

- 17. (Previously Presented) The capacitor of claim 14, wherein the capacitor is formed as a trench capacitor in a semiconductor substrate and wherein an insulation section is provided in the upper region of a trench wall adjoining an opening of the trench capacitor.
- 18. (Previously Presented) The capacitor of claim 14, wherein at least one of the electrode plates is formed from ruthenium.
- 19. (Previously Presented) The capacitor of claim 14, wherein at least one of the electrode plates is formed from ruthenium(IV) oxide.
- 20. (Currently Amended) A capacitor having a first electrode plate and a second electrode plate and a layer made of a dielectric formed between the first electrode plate and the second electrode plate, wherein the second electrode plate is formed from at least a layer made of ruthenium or ruthenium(IV) oxide and a layer made of polysilicon, wherein the capacitor is formed as a trench capacitor in a semiconductor substrate, in which the first electrode plate is formed as a doped section of the semiconductor substrate in a trench wall, the capacitor further comprising a barrier layer between the layer made of ruthenium or ruthenium(IV) oxide and the layer made of polysilicon.
- 21. (Canceled)
- 22. (Previously Presented) The capacitor of claim 16, further comprising a barrier layer disposed between the layer made of a dielectric and the second electrode plate.

- 23. (Previously Presented) The capacitor of claim 16, wherein the second electrode plate is further formed from a layer made of polysilicon.
- (Currently Amended) The capacitor of claim 23, further comprising a first barrier layer 24. disposed between the ruthenium or ruthenium(IV) oxide and the layer made of polysilicon.
- 25. (Previously Presented) The capacitor of claim 24, further comprising a second barrier layer disposed between the layer made of a dielectric and the second electrode plate.
- (Previously Presented) The capacitor of claim 16, wherein the first electrode plate is at 26. least one of supplemented by a layer made of metal or made of an electrically highly conductive material arranged on the doped sections.
- 27. (Previously Presented) The capacitor of claim 16, wherein at least one of the electrode plates is formed from ruthenium.
- 28. (Previously Presented) The capacitor of claim 16, wherein at least one of the electrode plates is formed from ruthenium(IV) oxide.
- 29. (Previously Presented) A capacitor comprising:
- a first electrode that includes a first sidewall, a bottom surface and a second sidewall, the first sidewall, the bottom surface and the second sidewall forming an enclosure;

a dielectric layer overlying the first sidewall, the bottom surface and the second sidewall; a metal layer overlying the dielectric layer and lining the first sidewall, the bottom surface and the second sidewall, the metal layer comprising ruthenium or ruthenium(IV) oxide; and

at least one material overlying the metal layer and filling at least a portion of the enclosure, wherein the at least one material comprises polysilicon.

30-31. (Canceled)

- 32. (Currently Amended) The capacitor of claim 29, further comprising:
  a first barrier layer between the dielectric layer and the metal layer; and
  a second barrier layer between the metal layer and the eonductive layer at least one
  material.
- 33. (Previously Presented) The capacitor of claim 29, wherein the first electrode comprises doped silicon.
- 34. (Previously Presented) The capacitor of claim 33, wherein the capacitor comprises a trench capacitor, wherein the doped silicon is formed along sidewalls of a trench formed in a silicon body, wherein the dielectric layer and the metal layer line the sidewalls of the trench, and wherein the at least one material comprises a conductive layer that fills at least a portion of the trench.